t 	404075				PARTIAL		7	Author	Zauon	Authorization
Vity # Investment	104875		106801		AUTHORIZATION Yes	2006	\$	\$ 1,850	,000	\$ 1,850,000
ty # Retirement	304875		306801		□ No	2007	\$ 1,600,0	00 \$ 900,0	00	\$ 2,500,000
Activity # Investment	104878		106803				\$	\$		\$
Activity # Retirement	304878		306803				\$	\$		
FILE NO.	NBA/MR/PI/SI	NO.	ESTIMATED ST	ART DATE	EST. COMPLETION	20		- 4		\$
			Year 2006		Year 2007	Retired	\$ 100,000	\$ 50,000	2	\$ 150,000
		,	Quarter 2		Quarter 2	Total	\$ 1,700,00	00 \$2,800,	000	\$ 4,500,000
Project Location Hudson & Lexington										
Project Description Retrofit engine-compres Regulations Alternatives Consider 1. Don't run the units.	ed			se 4-cycle)	to reduce NOx o	emissions in	order to com	ply with the USEI	PA Air Em	ission
 Run the units as is a Retrofit units to be co 	nd be subjecte ompliant with E	ed to fines and EPA Air Emiss	penalties. ion regulation	ns.						
Reason for Request				•						
Retrofit Engine Compres This program was newly		e compliant wi the EPA.	th EPA air ei	mission reg	ulations. No ca	pital was allo	ocated for air	emissions projec	t in the 20	06 budget.
The rope of Phase I need to were modification	eded to be ex	Turbocharge	75 (* 100K) 11	oi buugete	u. Sales tax & F	reignt (+320	K) were not b	oudgeted.	oning & T	esting (+276k).
For Revisions Only Reimbursable?				Income Taxes on Reimbursable Projects Included in overall budget?						
Revision: □ No □ 1 □ 2 □ 3 □ 4 □ Yes%			☐ No (Public Interest) ☐ Yes ☒ No ☐ Yes (Private Party) ☐ Dollars and year(s): *							
						Se	e instructions			
Operating Expense Imp	act (specify in	n detail)						\$ inc No in 2007	rease crease Storae	project only. in ge Area uired.
Economic Assessment Data				Approvals						
				TAG APPR	OVAL			S.C. APPROVAL		DATE
em (see page 2)		•	Value	<u> </u>						
ost of Capital (after tax)			<u>%</u>	PRINT REC	OMMENDED BY		DATE PR	INT APPROVED BY OFF	ICER	DATE
et Present Value at C/C	(after tax)		\$	Joe Det		03-	19-07 Ga	ary Bartlett		03-19-07
ternal rate of return (IRR), if applicable %			RECOMMENDED BY SIGNATURE CS APPROVED BY SIGNATURE - OFFICER						, ,	
nancial Analysis and Projects Approval				Bara	N Chros	xur 4	14/07	Yoryk. PROVED BY BOARD OF	hed	PPG- DATE
Date				CMT COMPLETION BY DATE POST INVESTMENT REVIEW Yes No Undecided If yes, Quarter Year						
				ACCOUNTIN	IG APPROVAL - CAPIT	ALIZED SOFTWA		OGET COMPLETION/ TO CK BY	LERANCE	DATE
					-					

Note: Use additional pages if more space is needed.

REGION

South(ern)

CAPITAL TYPE (see back)

Storage

AFUDC (see back)

☐ Yes

☐ No

Estimated Expenditures

This Request

Year

Previous Authorization

Total Authorization

A/U NO.

BUDGET ITEM NO.

NOx Compliance Project

CMT Meeting March 23, 2007

Phase I - Revised Estimate

+293 k +93 k +80 k & Testing +69 k	(2) Cooler Turbo Tax & Freight Commissioning & Testing	+144 k +80 k +59 k +69 k	(1) Cooler Tax & Freight Commission & Testing
\$1,658,448	\$4,458,448	\$2,800,000	TOTALS
\$ 535,982	\$1,032,982	\$ 497,000	Enterprise Hudson
\$ 293,242	\$1,196,242	\$ 903,000	Cooper Hudson
\$ 535,982 (2)	\$1,032,982	\$ 497,000	Enterprise Lexington
<u>Variance</u> \$ 293,242 (1)	New <u>Estimate</u> \$1,196,242	Original Budget \$ 903,000	Cooper Lexington
	New	Original	

Requested Authorization Increase NOx Project - Phase I

Original Authorization (3/22/06)

Requested Increase

Revised Phase I Project Total

\$ 2,800,000 \$ 1,700,000 \$ 4,500,000

NOx Phase I Project Expenditure Update

2006 2007

Current Est. \$ 2,250,000 \$ 2,250,000 \$ 4,500,000

\$ 1,900,000 \$ 900,000 \$ 2,800,000

Original Est.

NOx Phase II Project Expenditure Update (Est)

2007

\$ 1,600,000

\$ 3,000,000

NOx Project -Phase II Approval Request

	Proposed Budget	Material	Installation
Enterprise #15 - Ancona	\$1,000,000	\$ 500,000	\$ 500,000
Enterprise #31 - Pontiac	\$1,000,000	\$ 500,000	\$ 500,000
Enterprise #14 - Ancona	\$1,000,000	\$ 500,000	\$ 500,000
Stage 1 Engineering Cooper #41 - Pontiac	\$ 100,000	\$ 100,000	
TOTALS	\$3,100,000	\$1,600,000	\$1,500,000

NICOR GAS COMPANY EXECUTIVE COMMITTEE AND BOARD OF DIRECTORS APPROVAL

NEW PROJECT

Budget Item No. 223 - Air Emission Compliance Project

This project involves retrofitting four Engine-Compressor units to reduce NOx emissions. These reductions have been mandated by the USEPA Subpart Q regulations. These four units must be in compliance with this regulation by May 1, 2007. This project also includes the purchase of emission testing equipment to conduct baseline emission testing in order to establish our current and subsequent level of NOx emissions.

Total Authorization

\$2,800,000

Approved by Executive Committee April 12, 2006

Approved by Board of Directors April 20, 2006

Paul C. Gracey, Jr. Secretary of the

Executive Committee and Board of Directors

BUDGET ITEM NO.	A/U NO. REGION	CAPITAL TYPE (see bac	ck) AFUDC (see back)	1					
223			Yes		1	Estimated Expenditures Previous		T	
	South(ern)	Storage	□ No	Year This R		Request Authorization		Total Authorization	
# Investment	104875		PARTIAL AUTHORIZATION	2006	\$ 1,850,0	000	\$	\$	
ity # Retirement	304875		☐ Yes ✓ ☐ No	2007	\$ 900,00	00	\$	\$	
Activity # Investment	10680	104878			\$		\$	\$	
Activity # Retirement	301801	304878							
FILE NO.	NBA/MR/PI/SINO.	ESTIMATED START DAT	E EST. COMPLETION Year 2007	Retired	\$ 50,000		\$ \$	\$	
10 31	06803	Quarter 2	Quarter 2	Total	\$ 2,800,0		\$	\$	
Project Location Hudson & Lexington Project Description									
Retrofit engine-compres Regulations	ssor units (2 Cooper 2-cycle	& 2 Enterprise 4-c	ycle) to reduce NOx e	missions in	order to cor	mply with	the USEPA Air E	mission	
Alternatives Consider 1. Don't run the units. 2. Run the units as is a 3. Retrofit units to be considered.	ed nd be subjected to fines and ompliant with EPA Air Emissi	penalties. on regulations.							
Reason for Request						· · · · · · · · · · · · · · · · · · ·			
Retrofit Engine Compre: This program was newly	ssor units to be compliant wit mandated by the EPA.	h EPA air emissio	n regulations. No cap	oital was allo	ocated for ai	ir emissio	ons project in the 2	2006 budget.	
eason for Budget Re	vision		-						
For Revisions Only Reimbursable?			Income Taxes on Reimbursable Projects Included in overall budget?						
Revision:		6	☐ No (Public Interest) ☐ Yes ☑ No ☐ Yes (Private Party) ☐ See instructions					budget!	
Operating Expense Imp	pact (specify in detail)								
		·							
Economic Assessment Data			Approvals						
		TAG	TAG APPROVAL DATE		DATE	1.T.S.C. APPROVAL DATE		DATE	
em (see page 2)		Value	NT DECOMMENDED DV						
cost of Capital (after tax)		 	NT RECOMMENDED BY		DATE PRINT		OVED BY OFFICER	DATE	
let Present Value at C/C (after tax) sternal rate of return (IRR), if applicable		\$ Joe	Deters COMMENDED BY SIGNATURE	03		Gary Bar		03/21/06	
iternal rate of return (IRI	≺), if applicable	1 %	h DA DA	-1	1	APPROVED I	BY SIGNATURE - OFFICE	11-1	
inancial Analysis and Projects Approval			ROVED BY CMT DATE APPROVED BY FOARD OF DIRECTORS/FPC DAT					RS/FPC DATE	
		1/	irharall. Helle	w 3/3	0a/06				
Date			CUMPLETION BY C	MPLETION BY U DATE POST INVESTMENT REVIEW ☐ Yes ☐ No ☐ Undecided If yes, Quarter Year					
		ACC	OUNTING APPROVAL - CAPIT	ALIZED SOFTW/	ARE E		MPLETION/ TOLERANCE		

Note: Use additional pages if more space is needed.

BUDGET ITEM NO. A/U NO. REGION CAPIT.

Air Emission Compliance

CMT Presentation March 22, 2006

WP(F-4) 6 9/25

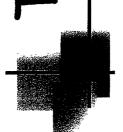
Project Description

- Nicor must reduce established baseline NOx emission by 82% for units in the "SIP" call inventory to meet EPA.
- we have to retrofit in order to achieve Still unclear as to exactly which units the required emission reductions.
- Must meet reductions on 4 units by May 1, 2007.



Nicor Plan

- Retrofit 4 Engine/Compressor units to reduce NOx emissions to comply with USEPA Subpart Q regulations.
 - (2 units at Hudson & 2 units at Lexington)
- Meet the May 1, 2007 compliance date.
- have to be retrofitted as the IEPA plan Will determine which other units will is written.



Timetable

Design & Testing

Permit Application

Order Material

Receive Material

Dismantle Units

Installation

. Start-up & Testing

Apr '07

April - May '06 April '06 mid-April '06 Sept - Oct '06 Nov - Dec '06 Jan - Mar '07



Cost Estimate

Cooper 2-cycle (ea)
 (ancillary equipment)
 Total:

\$678,250 200,000 \$878,250

Enterprise 4-cycle (ea)
 (ancillary equipment)

Total:

\$374,500 100,000 \$474,500 WP(F-4) 6 12/25





Cost Estimate (con't)

Hudson

(1 Cooper & 1 Enterprise)

Lexington

(1 Cooper & 1 Enterprise)

Design & Testing

\$ 1,352,750
1,352,750

100,000 \$2,805,500

Total:

Request for Unplanned Capital Project

- No Capital allocated for air emissions project in 2006 Budget. Newly mandated by EPA
- reallocate funds to accommodate this unplanned Currently do not anticipate the ability to expenditure.
- Request authorization for required project to meet EPA mandates:

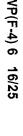
\$100,000 \$1,900,000 1,800,000 Baseline test & testing equipment Total: Equipment purchases

\$900,000 Remainder of equipment purchases and installation 2007

WP(F-4) 6 15/25

Air Emission Compliance

Executive Committee
Presentation
April 12, 2006





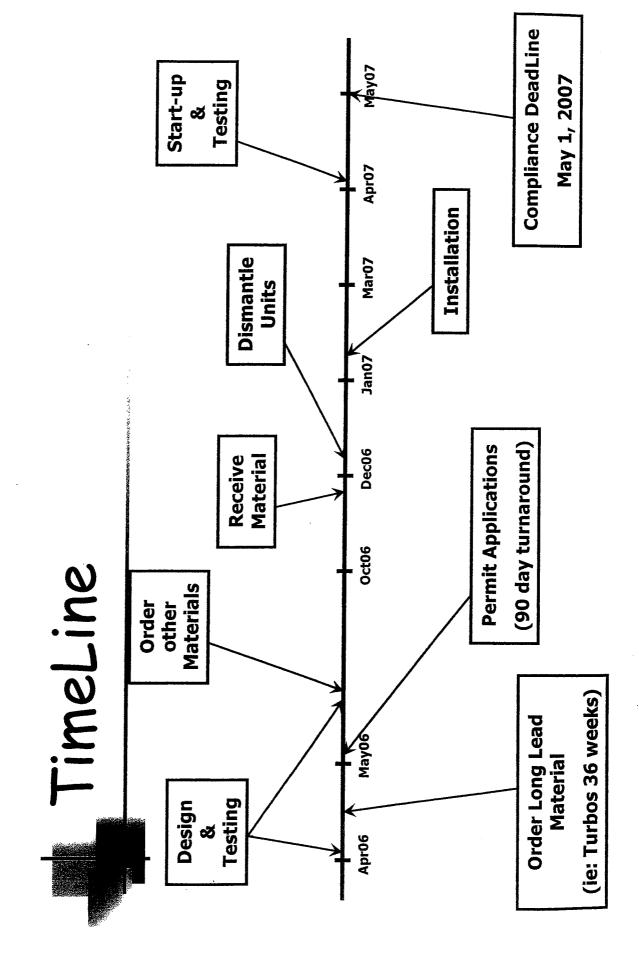
- Nicor must reduce established baseline NOx emission by 82% for units in the "SIP" call inventory to meet EPA.
- Still unclear as to exactly how many total units we have to retrofit in order to achieve the required total emission reductions by January, 2009.
- Must meet reductions on 4 units by May 1, 2007.

Nicor Plan

Retrofit 4 Engine/Compressor units with USEPA Subpart Q regulations. to reduce NOx emissions to comply

(2 units at Hudson & 2 units at Lexington)

- Meet the May 1, 2007 compliance date.
- Will determine how many other units will have to be retrofitted as the IEPA plan is written.





Cost Estimate (con't)

Hudson - cooper

- Enterprise

- Lexington - Cooper

- Enterprise

\$ 100,000

\$2,805,500 Total:

\$ 474,500 \$878,250

\$878,250

\$ 474,500

Design & Testing

Request for Unplanned Capital Project



reallocate funds to accommodate this unplanned Currently do not anticipate the ability to expenditure.

Request authorization for required project to meet EPA mandates:

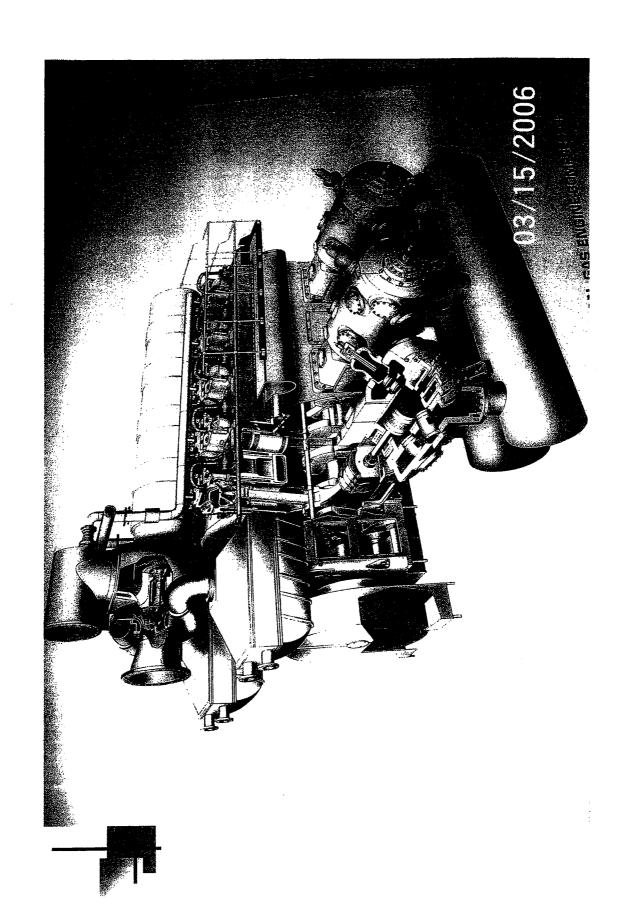
\$100,000 \$1,900,000 1,800,000 Baseline test & testing equipment Total: Equipment purchases 2006

\$900,000 Remainder of equipment purchases and installation

WP(F-4) 6 21/25

Other Benefits-Fuel Savings

- Studies still underway to confirm quantities
- Estimate, ~ 10% reduction in fuel
- (assuming 3 months) This translates to \$36,000/yr (assuming \$8.00 gas) Depending on hours of operation,



Air Emission Compliance

Board of Directors Presentation April 20, 2006



Project Description

- Nicor must reduce established baseline NOx emission by 82% for units in the "SIP" call inventory to meet USEPA mandates.
- 4 units must meet reductions by May 1, 2007.
- Nicor may have other units that have to be in compliance by January, 2009. We will know the IEPA rule by then.

WP(F-4) 6 25/25

Request for Unplanned Capital Project

Request authorization for required project to meet EPA mandates:

2006

Baseline test & testing equipment Equipment purchases

1,800,000 \$1,900,000

\$100,000

Total:

\$900,000

2007

Remainder of equipment purchases

and installation

TimeLine

Key Material

Installation

Start-up & Testing

- 36 Week Lead time

- Dec '06 thru Mar '07

- Mar '07 thru Apr '07